

FIG. 1

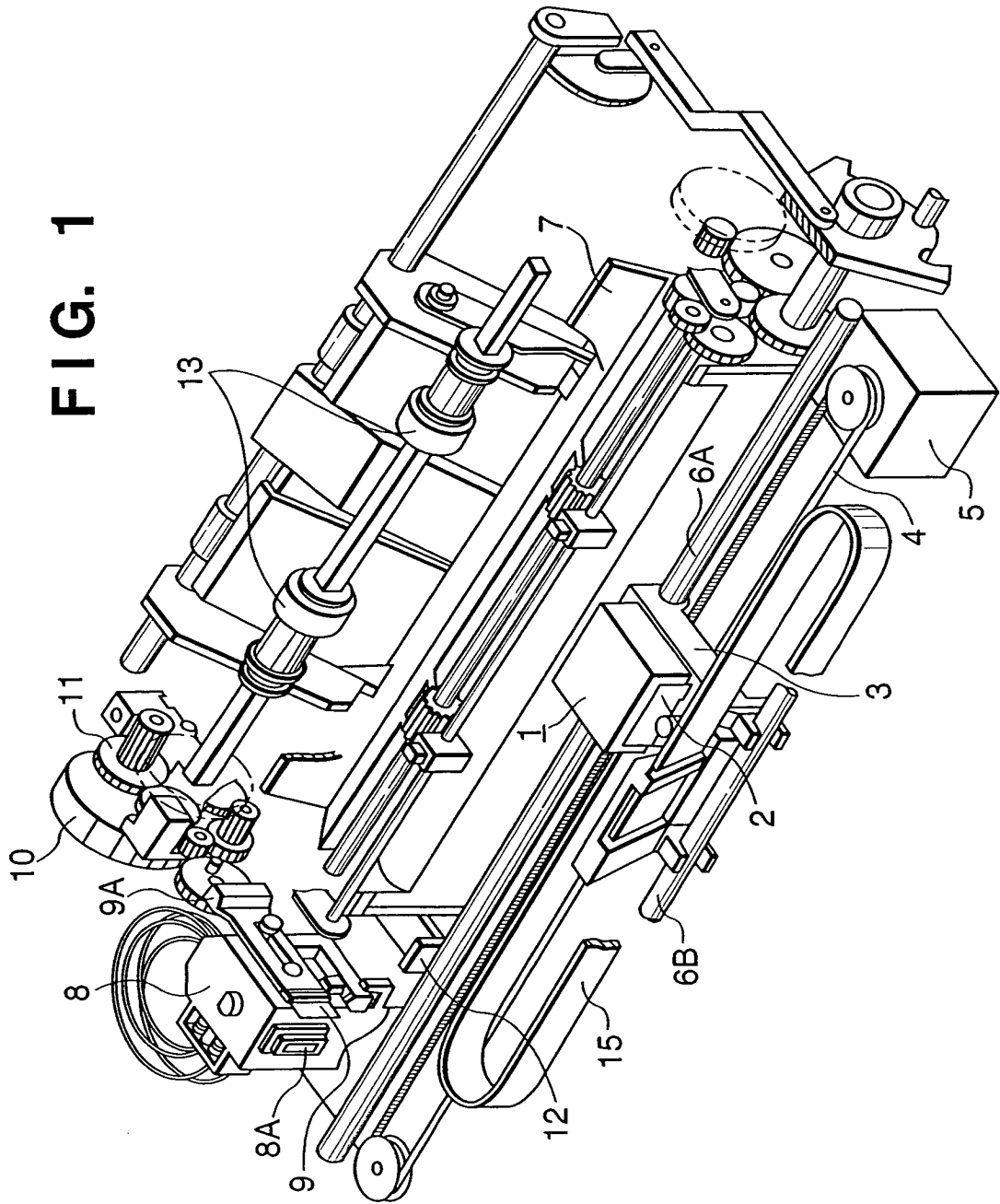


FIG. 2

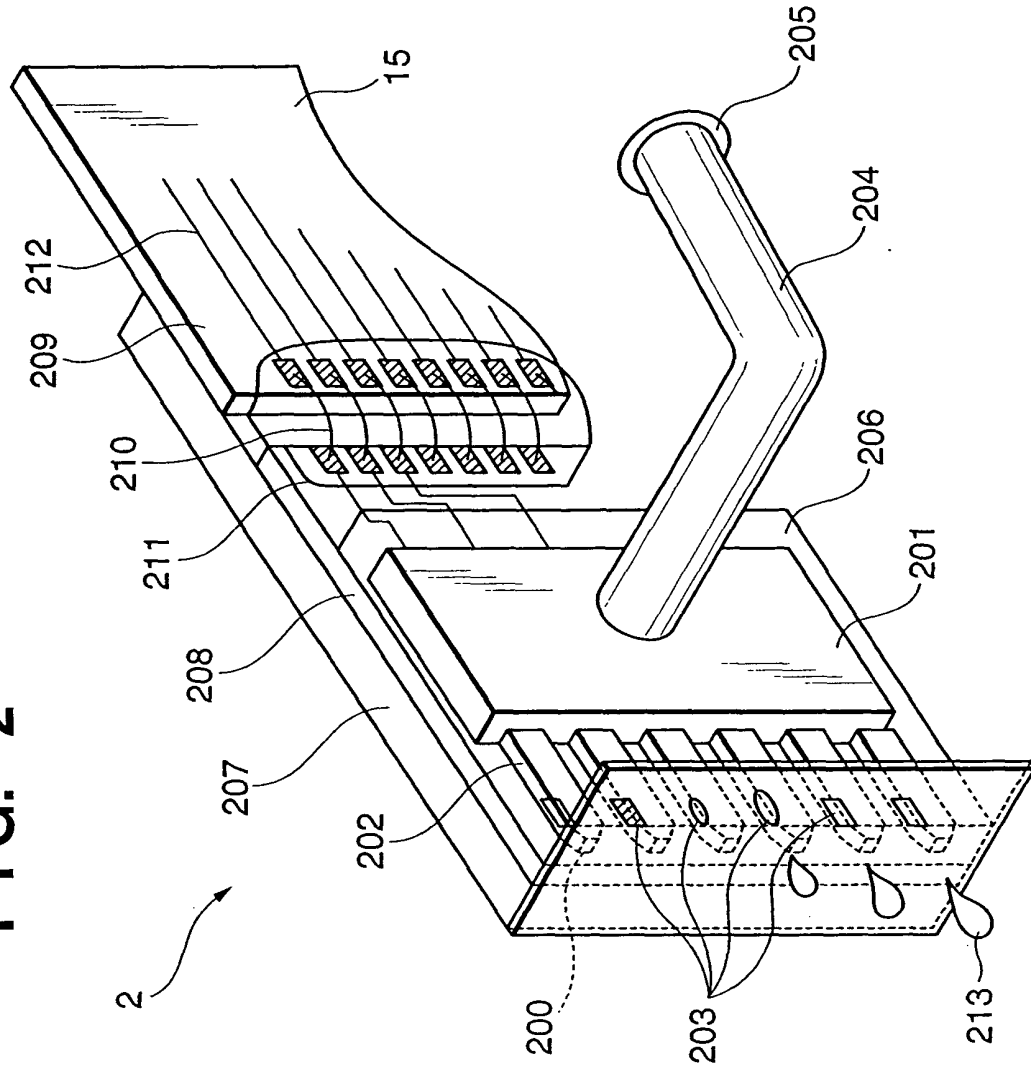


FIG. 3

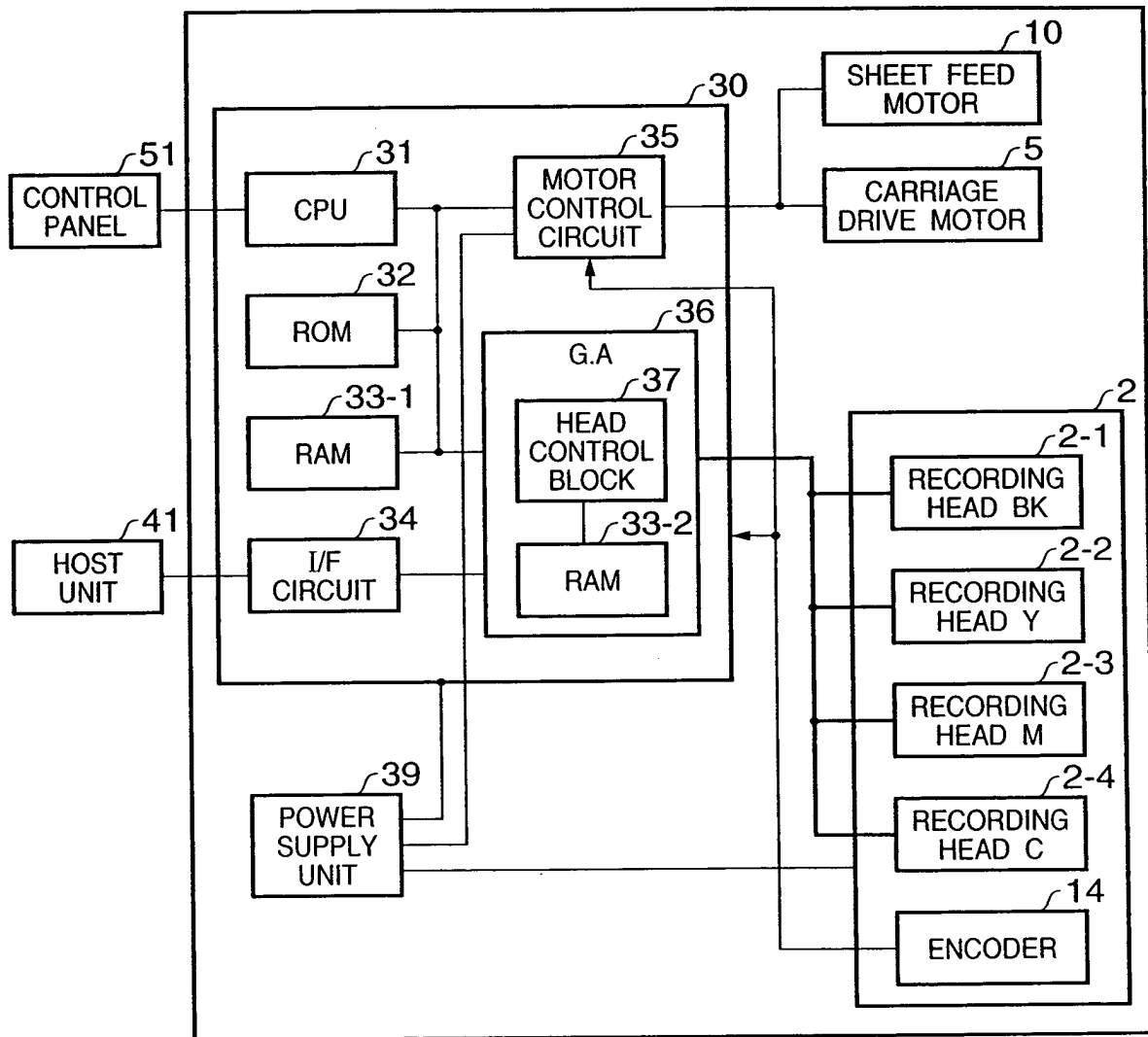


FIG. 4B

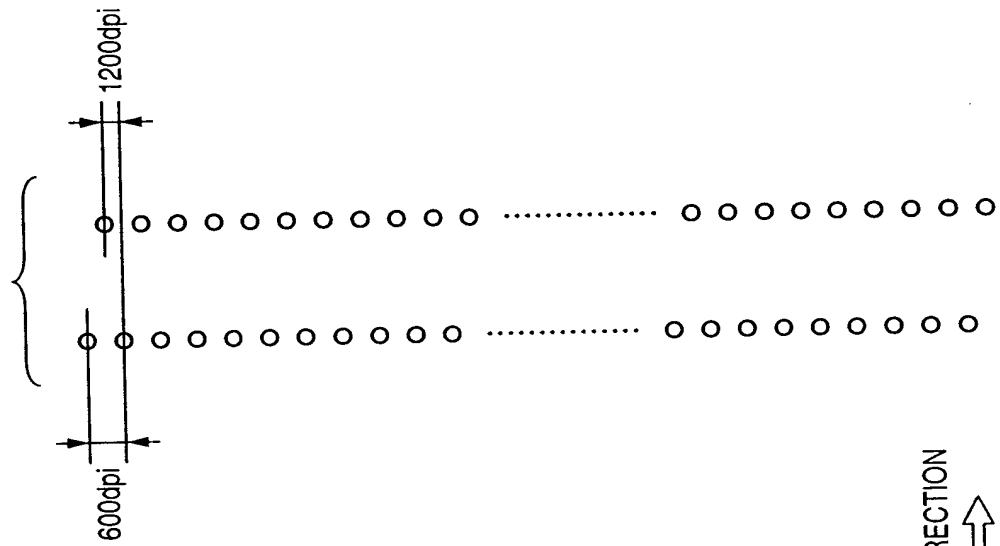
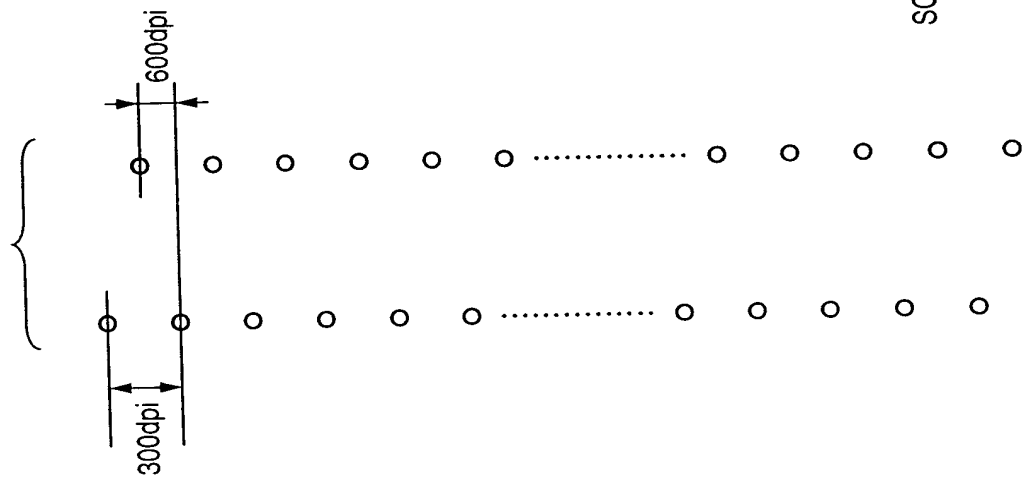


FIG. 4A



SCANNING DIRECTION

FIG. 5

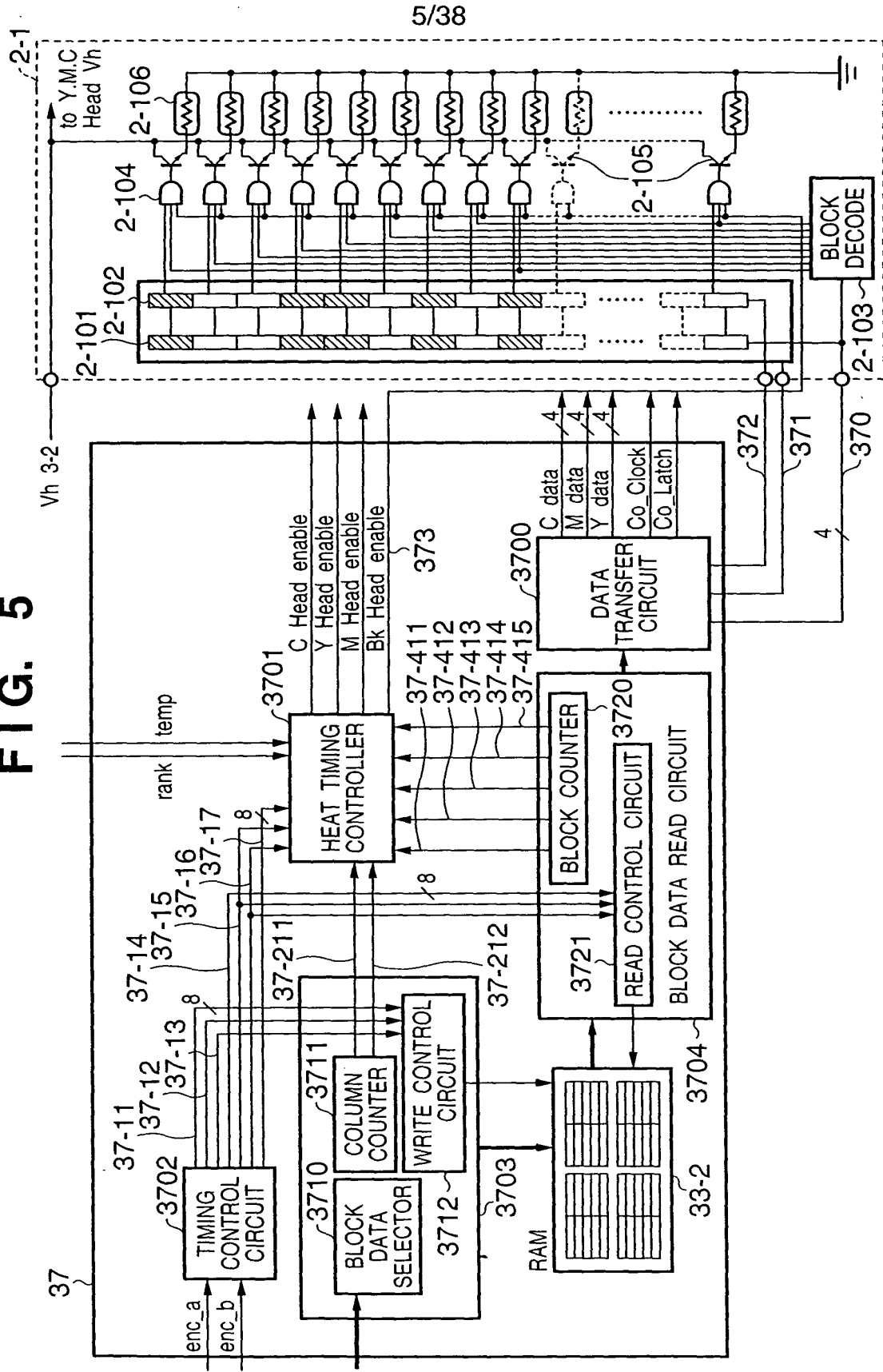


FIG. 6

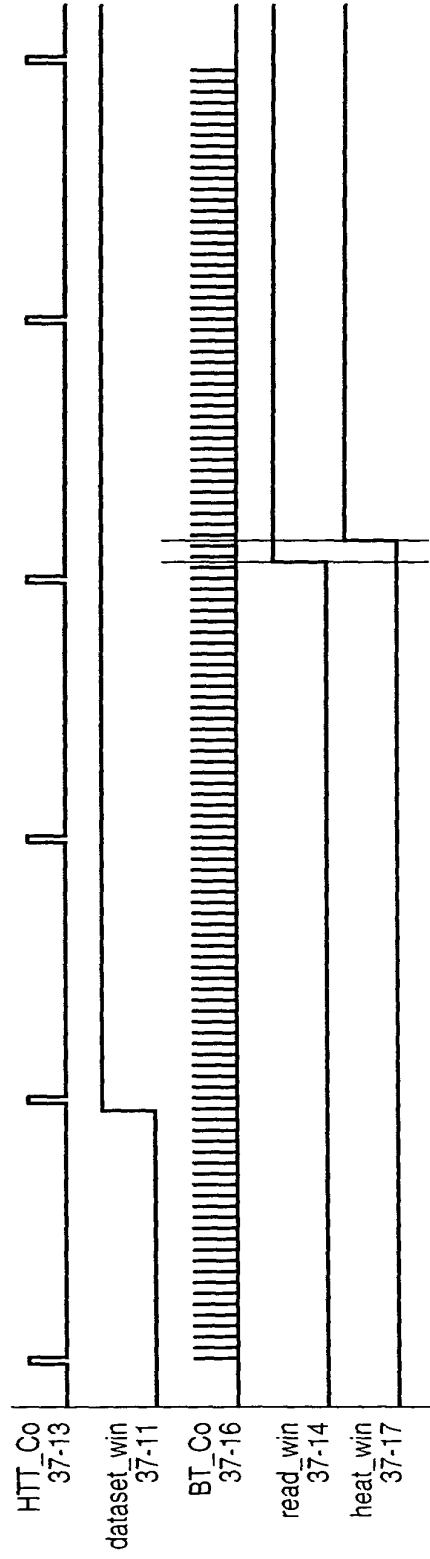


FIG. 7

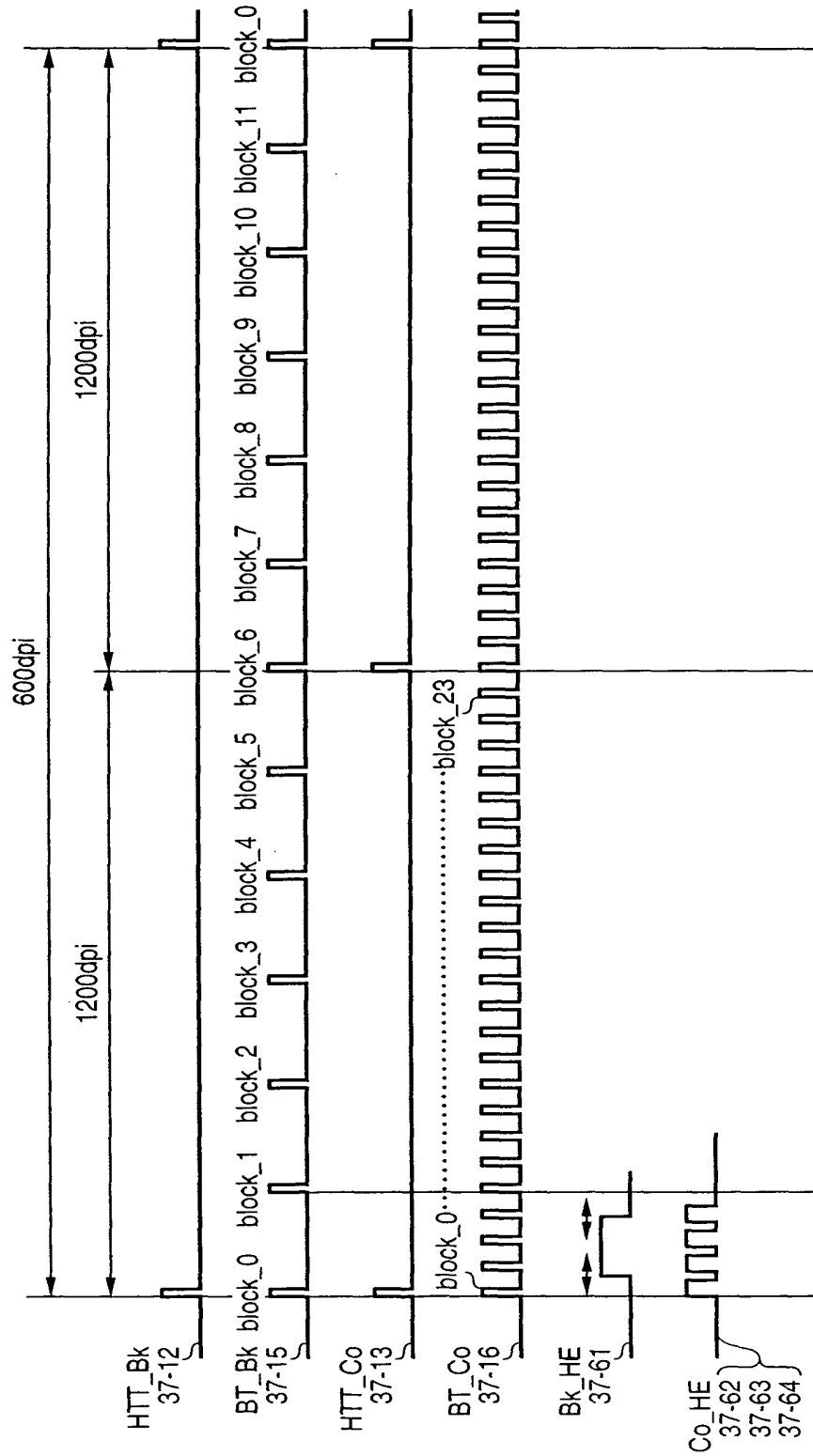


FIG. 8

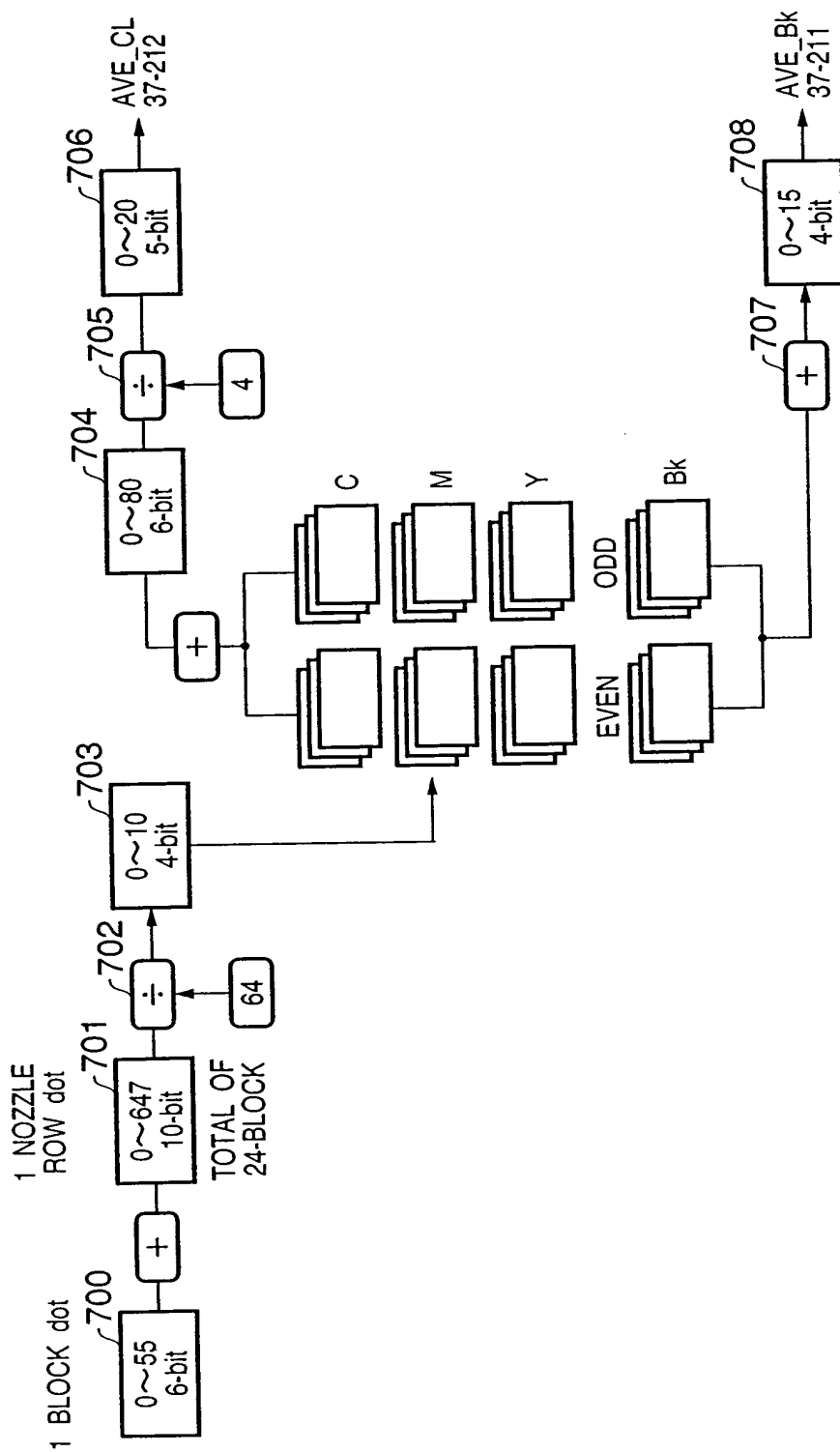
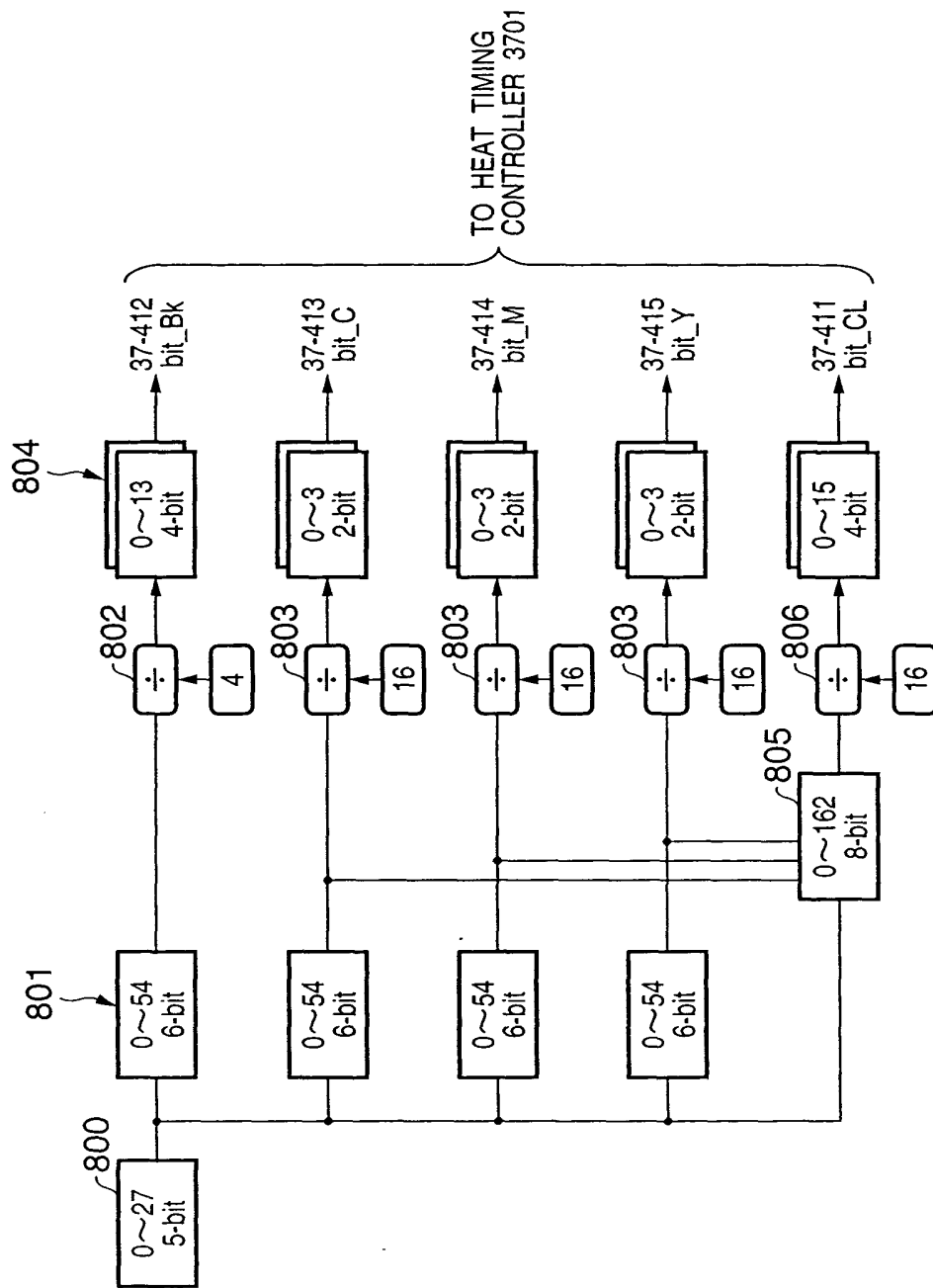
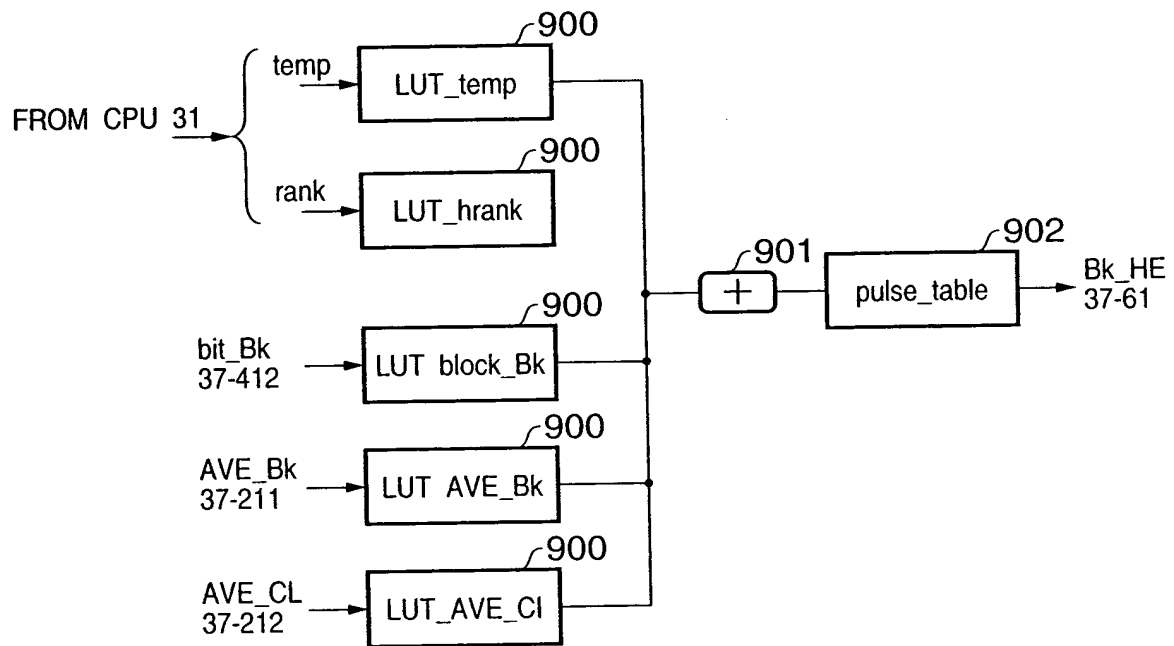




FIG. 9



**FIG. 10**

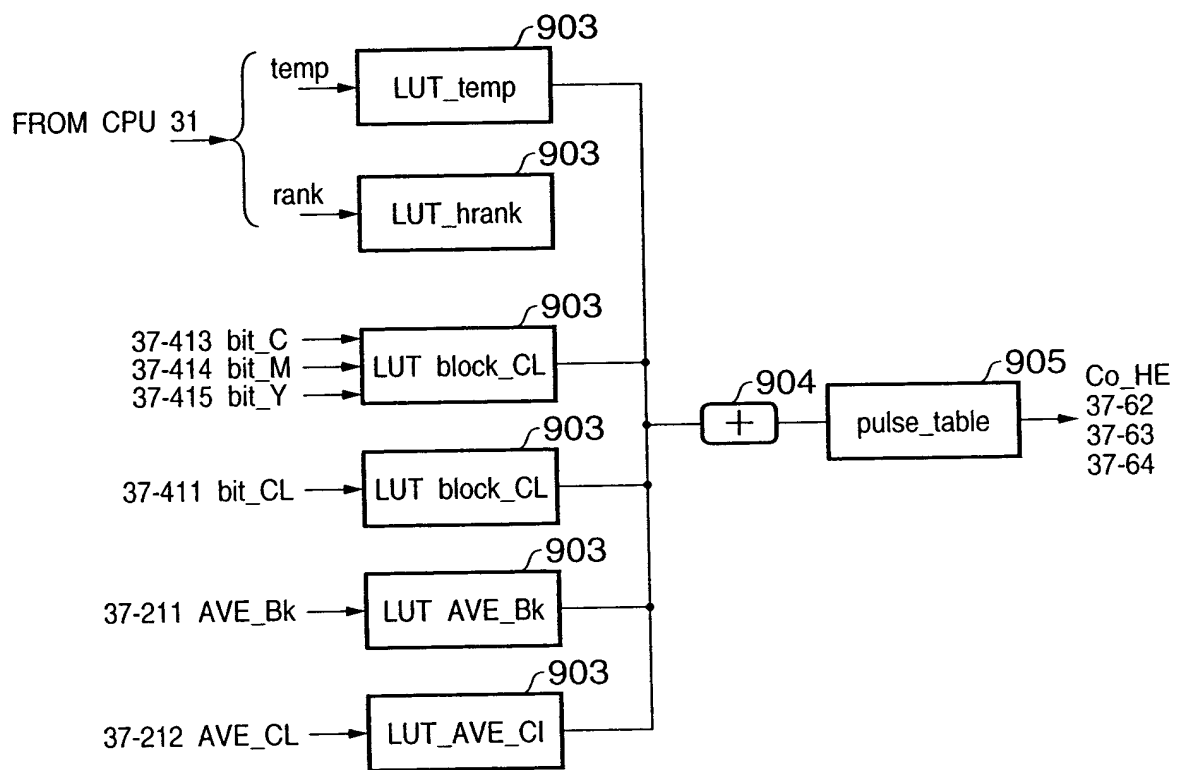
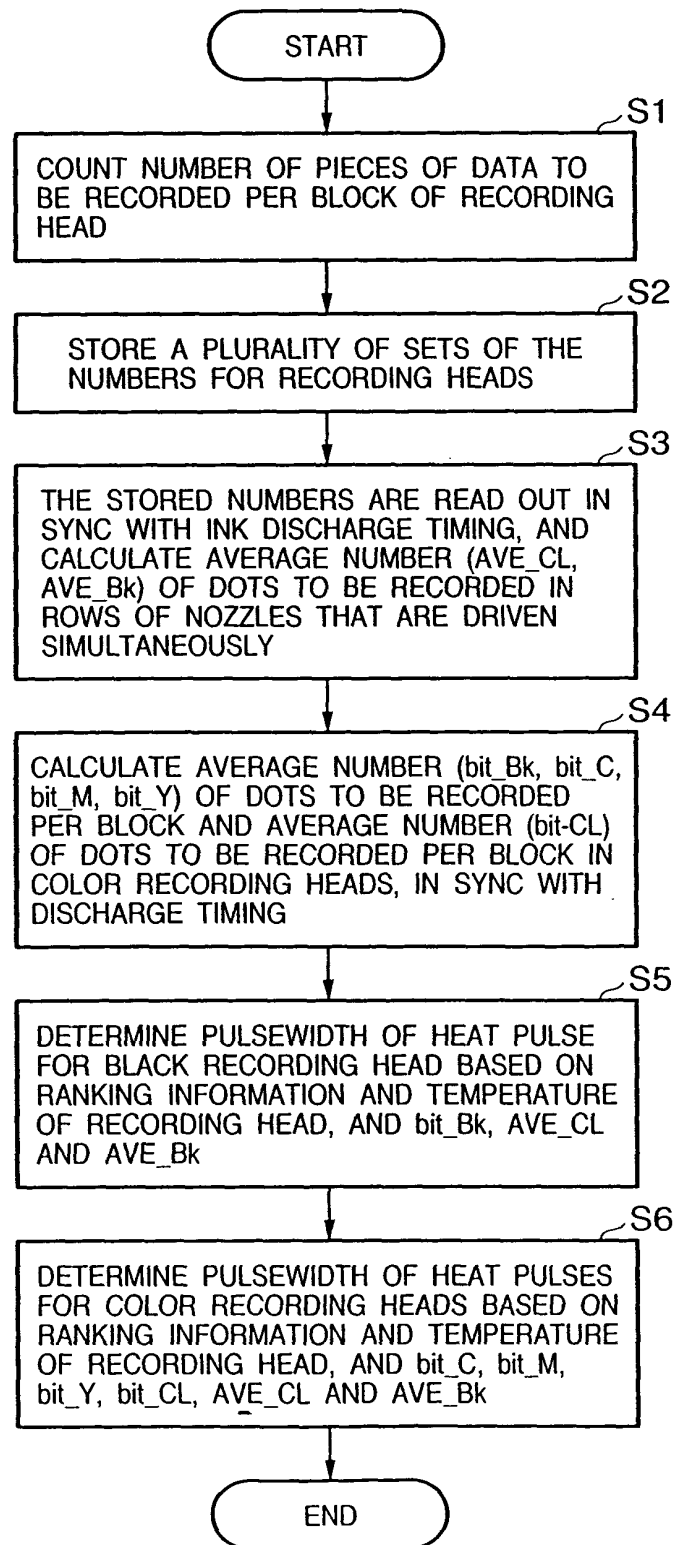
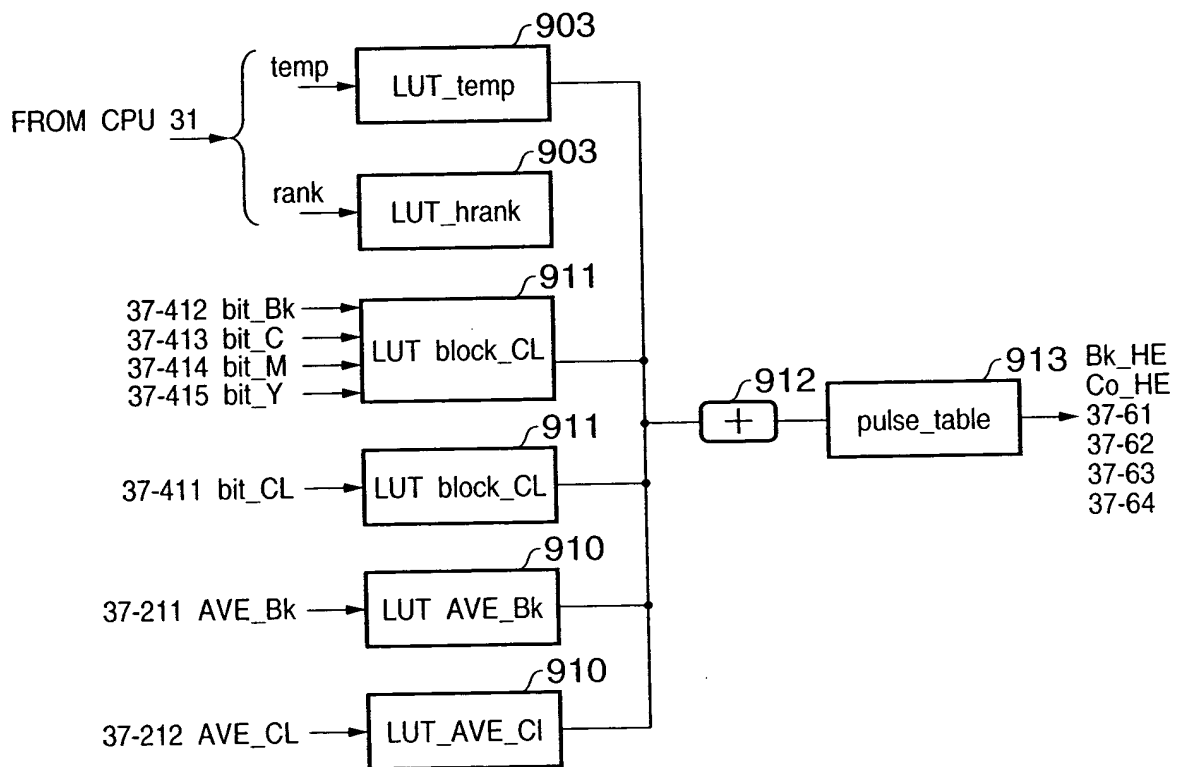
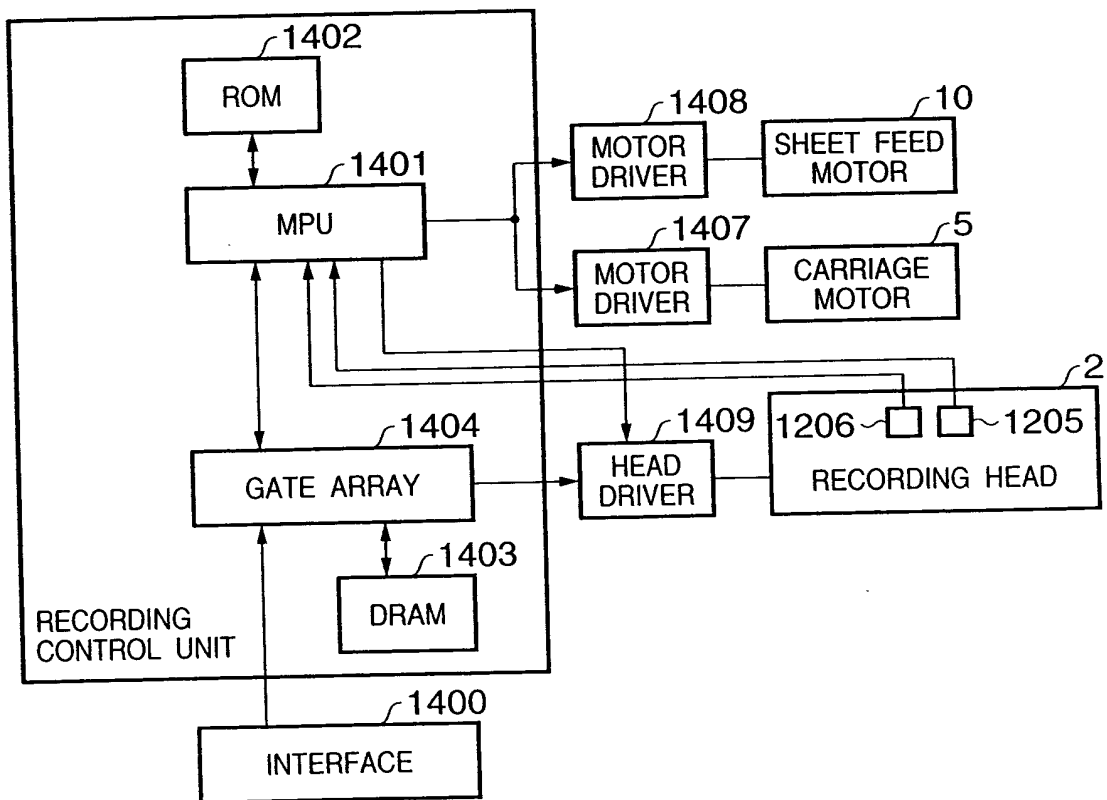
**FIG. 11**

FIG. 12



**FIG. 13**

**FIG. 14**

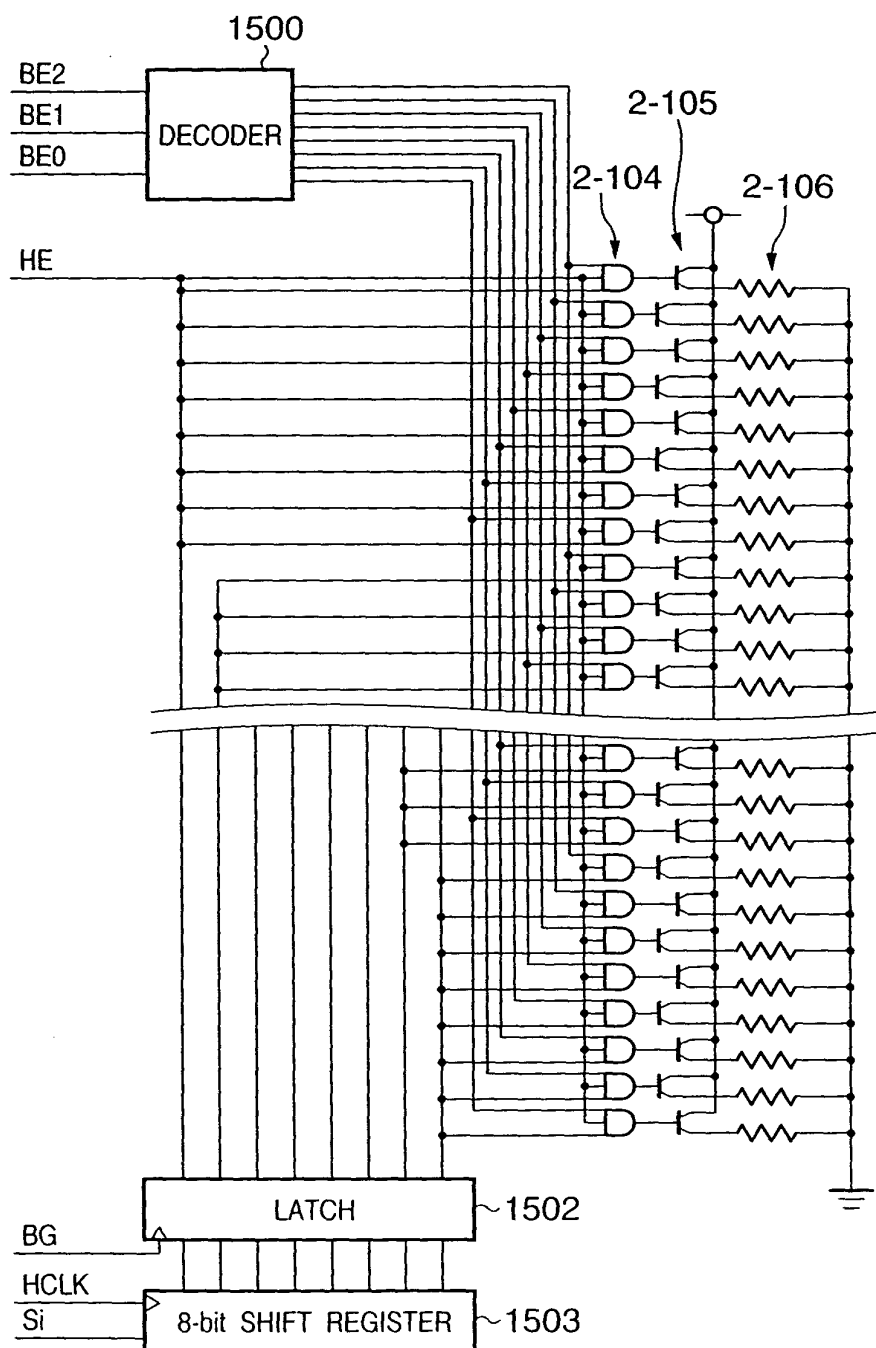
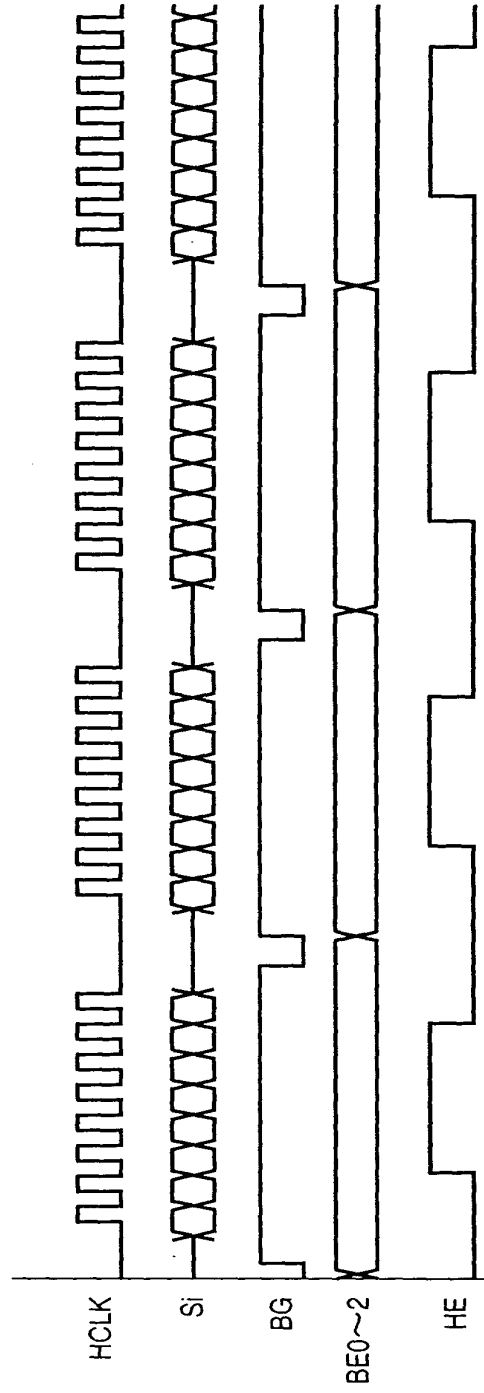
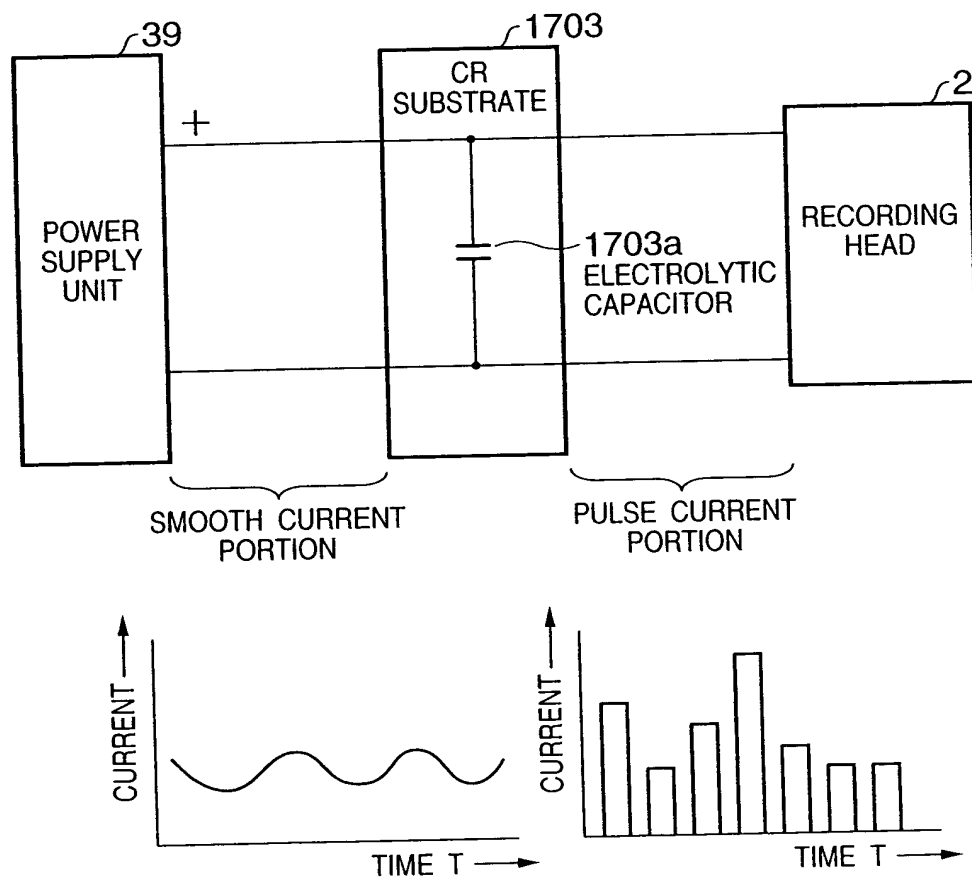
**FIG. 15**

FIG. 16





**FIG. 17**

**FIG. 18**

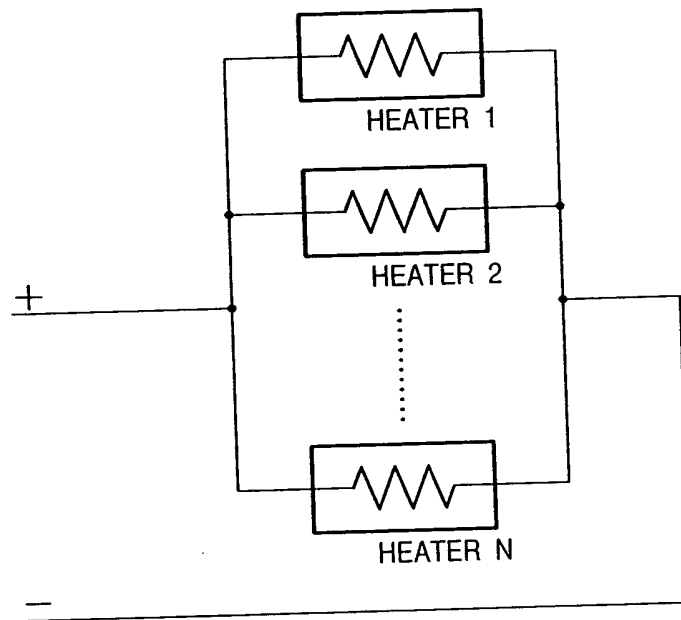
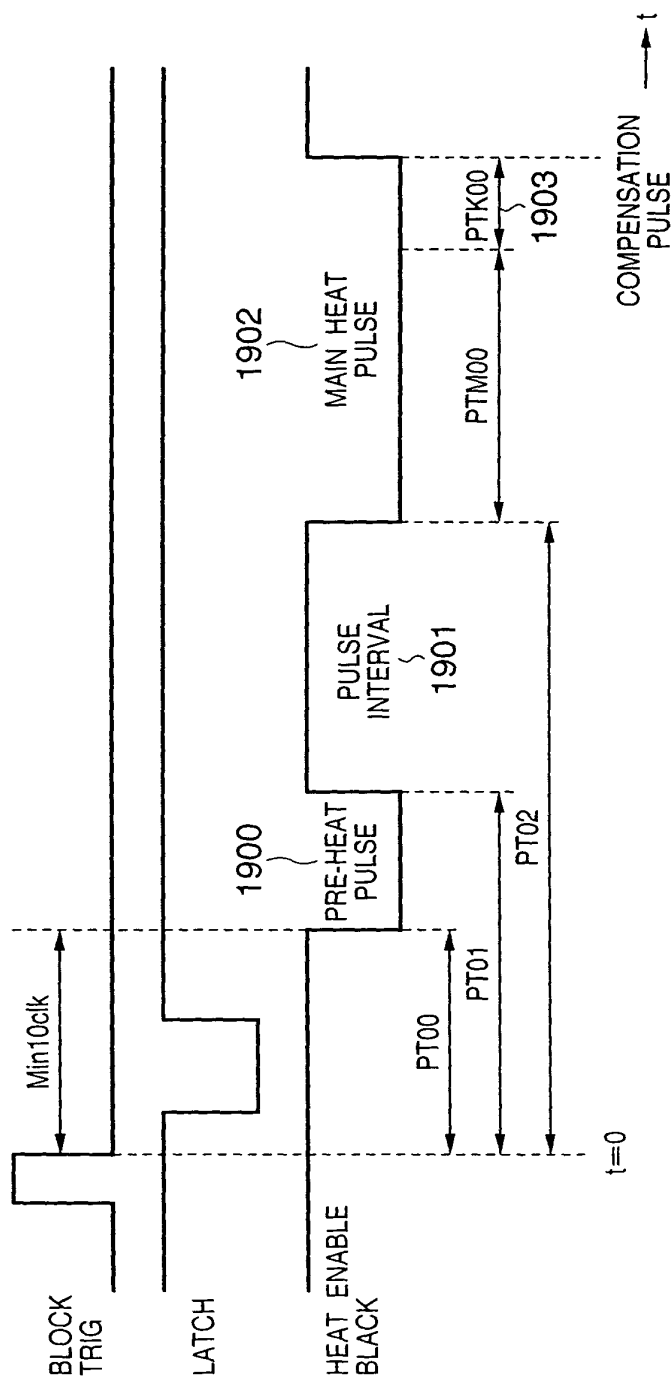
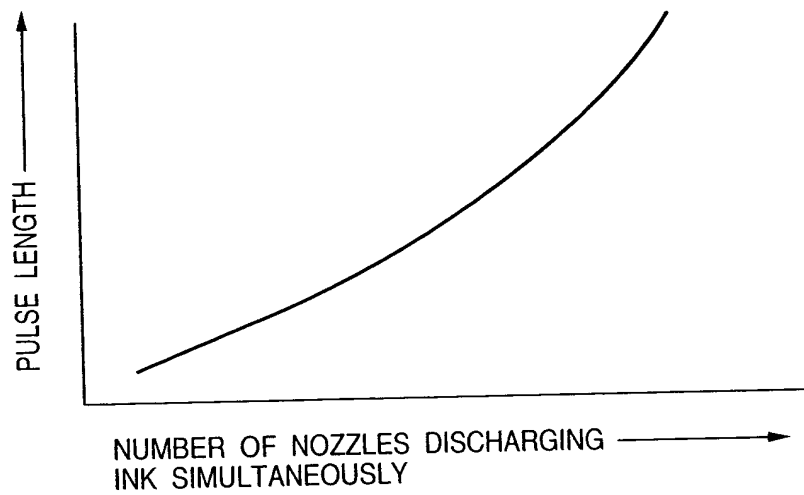


FIG. 19



**FIG. 20**



**FIG. 21**

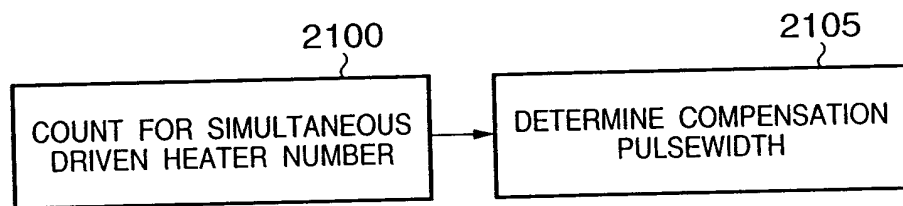
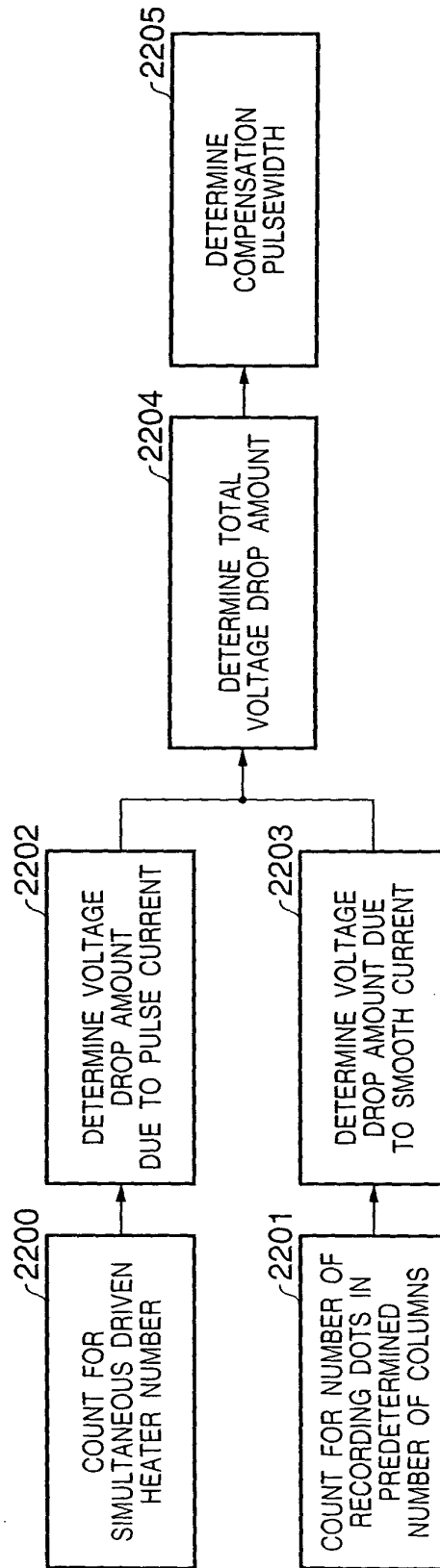
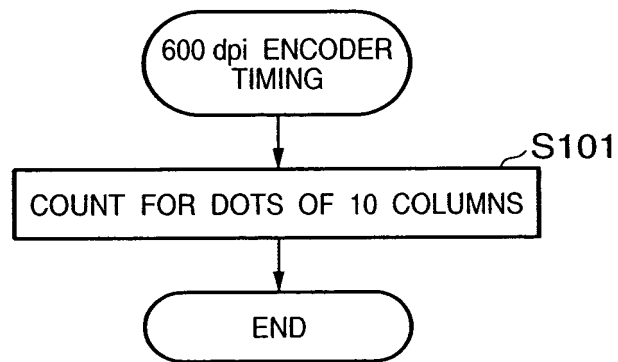
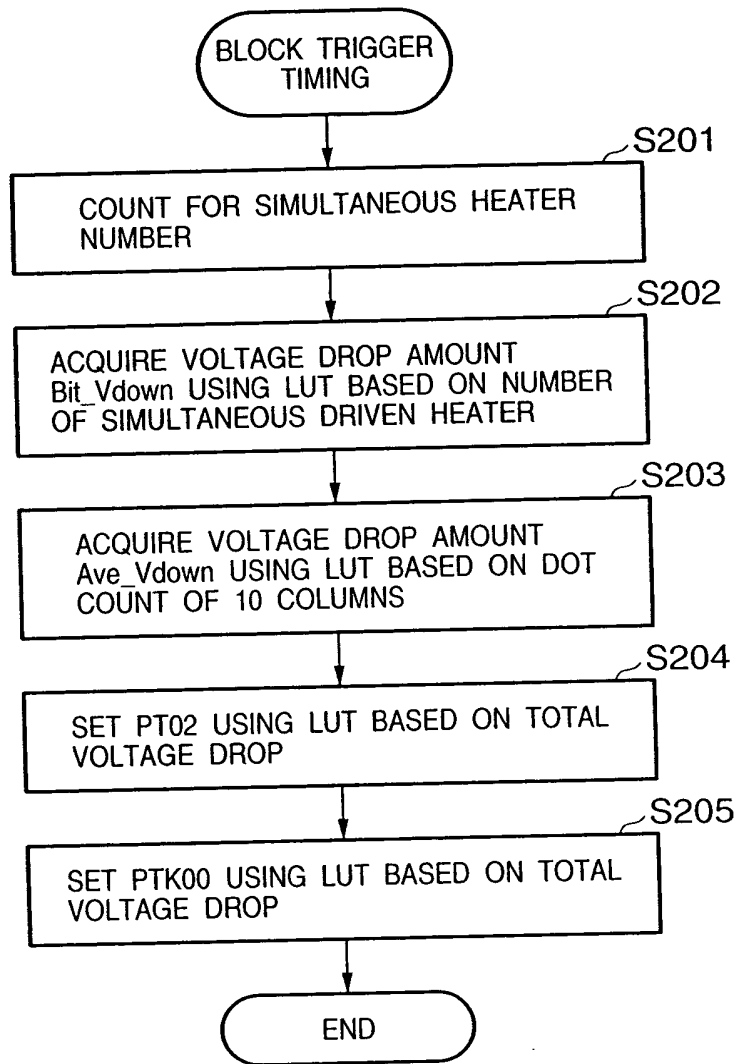


FIG. 22



**FIG. 23**



**FIG. 24**



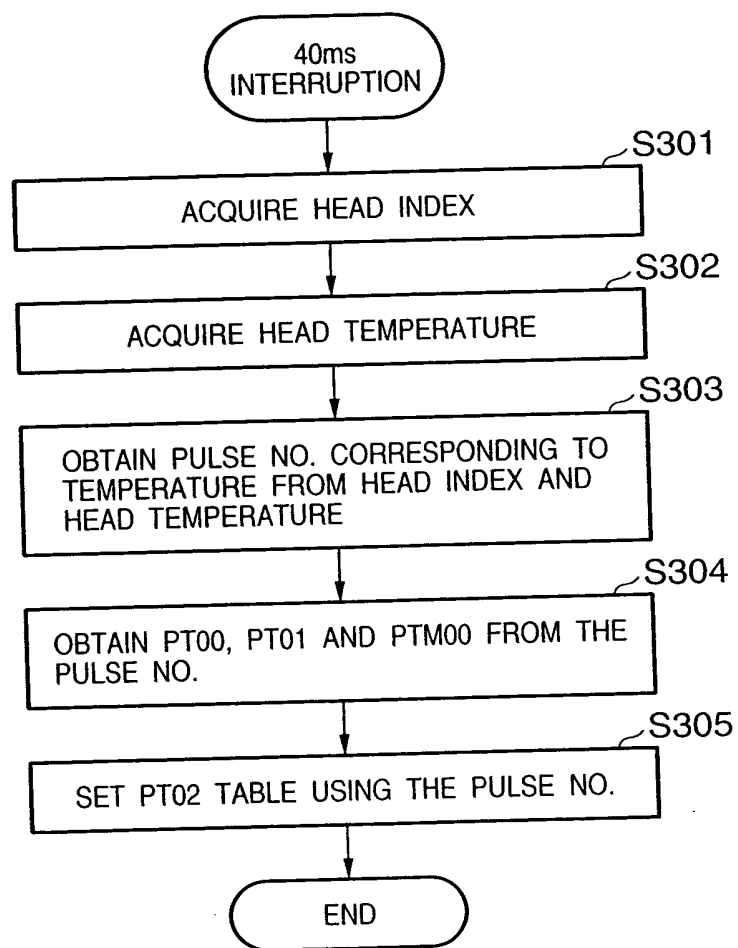
**FIG. 25**

FIG. 26

TEMPERATURE-CORRESPONDENT PULSE NO. TABLE

| HEAD INDEX | HEAD TEMPERATURE 25-30 | HEAD TEMPERATURE 30-35 | HEAD TEMPERATURE 35-40 | HEAD TEMPERATURE 40-45 |
|------------|------------------------|------------------------|------------------------|------------------------|
| 114        | 0                      | 0                      | 0                      | 1                      |
| 115        | 1                      | 1                      | 1                      | 2                      |
| 116        | 2                      | 2                      | 3                      | 3                      |
| ...        | ...                    | ...                    | ...                    | ...                    |
| 173        | 4                      | 4                      | 5                      | 5                      |

SET AT  
40ms  
INTERRUPTION



TEMPERATURE-  
CORRESPONDENT  
PULSE NO.

**FIG. 27**

PT00, PT01, PTM00 TABLE

| TEMPERATURE-CORRESPONDENT<br>PULSE NO. | PT00 | PT01 | PTM00 |
|--|------|------|-------|
| 0                                      | 10   | 48   | 82    |
| 1                                      | 10   | 48   | 83    |
| 2                                      | 10   | 48   | 84    |
| ...                                    | ...  | ...  | ...   |
| 43                                     | 10   | 48   | 100   |

1st=1/66us

SET AT  
40ms  
INTERRUPTION

|       |
|-------|
| PT00  |
| PT01  |
| PTM00 |

FIG. 28

PT02 SETTING TABLE

| TEMPERATURE-<br>CORRESPONDENT<br>PULSE NO. | Vdown<br>0 | Vdown<br>1 | ... | Vdown<br>29 |
|--|------------|------------|-----|-------------|
| 0  | 103        | 102        | ... | 80          |
| 1  | 102        | 101        | ... | 79          |
| 2  | 101        | 100        | ... | 78          |
| ...  | ...        | ...        | ... | ...         |
| 43   | 83         | 82         | ... | 60          |

1st=1/66us

SET AT  
40ms  
INTERRUPTION



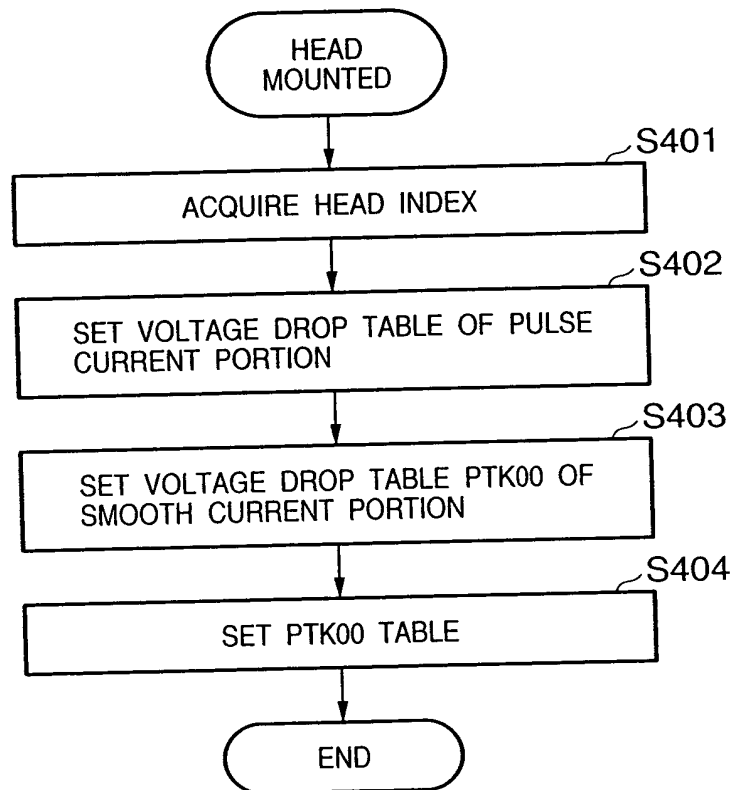
SET AT  
BLOCK  
TRIGGER  
TIMING



| Vdown<br>Level | 0 | 1 | ... | 29 |
|----------------|---|---|-----|----|
| PT02           |   |   |     |    |



PT02

**FIG. 29**

**FIG. 30**

Bit\_Vdown SETTING TABLE

| HEAD INDEX | VOLTAGE DROP LEVEL 0 | VOLTAGE DROP LEVEL 1 | ... | VOLTAGE DROP LEVEL 13 |
|------------|----------------------|----------------------|-----|-----------------------|
| 114        | 11                   | 26                   | ... | 161                   |
| 115        | 11                   | 25                   | ... | 160                   |
| 116        | 11                   | 24                   | ... | 158                   |
| ...        | ...                  | ...                  | ... | ...                   |
| 173        | 9                    | 22                   | ... | 154                   |

SET WHEN HEAD IS MOUNTED



| VOLTAGE DROP LEVEL | 0 | 1 | ... | 13 |
|--------------------|---|---|-----|----|
| Bit_Vdown          |   |   |     |    |

FIG. 31

Ave\_Vdown SETTING TABLE

| HEAD INDEX | VOLTAGE DROP LEVEL 0 | VOLTAGE DROP LEVEL 1 | ... | VOLTAGE DROP LEVEL 10 |
|------------|----------------------|----------------------|-----|-----------------------|
| 114        | 8                    | 16                   | ... | 78                    |
| 115        | 8                    | 16                   | ... | 79                    |
| 116        | 8                    | 16                   | ... | 80                    |
| ...        | ...                  | ...                  | ... | ...                   |
| 173        | 8                    | 16                   | ... | 84                    |

SET WHEN HEAD IS MOUNTED



| VOLTAGE DROP LEVEL | 0 | 1 | ... | 10 |
|--------------------|---|---|-----|----|
| Ave_Vdown          |   |   |     |    |

FIG. 32

PTK00 SETTING TABLE

| HEAD INDEX | VOLTAGE DROP LEVEL<br>0 | VOLTAGE DROP LEVEL<br>1 | ... | VOLTAGE DROP LEVEL<br>29 |
|------------|-------------------------|-------------------------|-----|--------------------------|
| 114        | 0                       | 1                       | ... | 10                       |
| 115        | 0                       | 1                       | ... | 10                       |
| 116        | 0                       | 2                       | ... | 11                       |
| ...        | ...                     | ...                     | ... | ...                      |
| 173        | 0                       | 3                       | 4   | 15                       |

1st=1/66us

SET WHEN HEAD IS MOUNTED



SET BY BLOCK TRIGGER TIMING



| VOLTAGE DROP LEVEL | 0 | 1 | ... | 29 |
|--------------------|---|---|-----|----|
| PTK00              |   |   |     |    |

PTK00



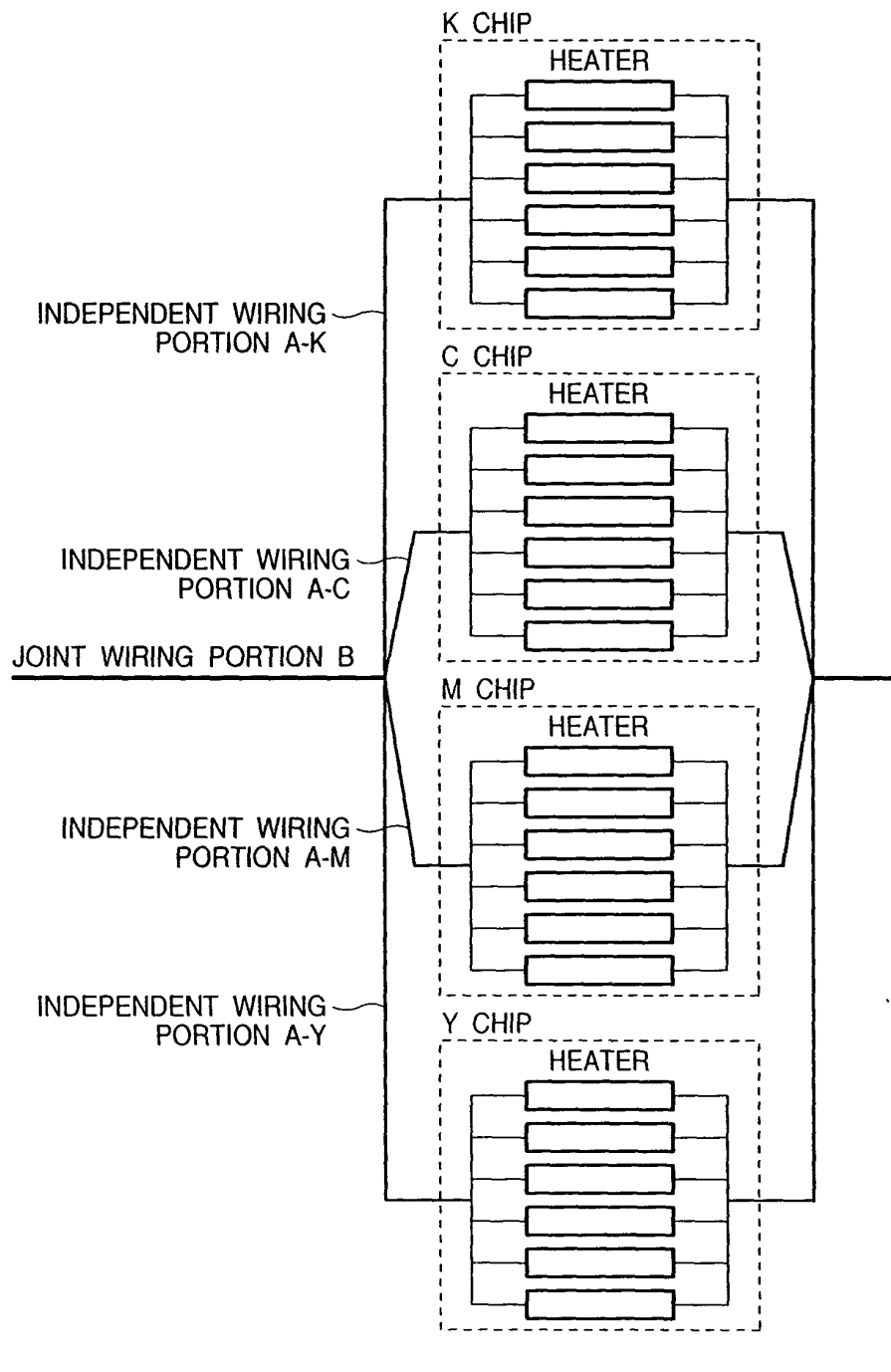
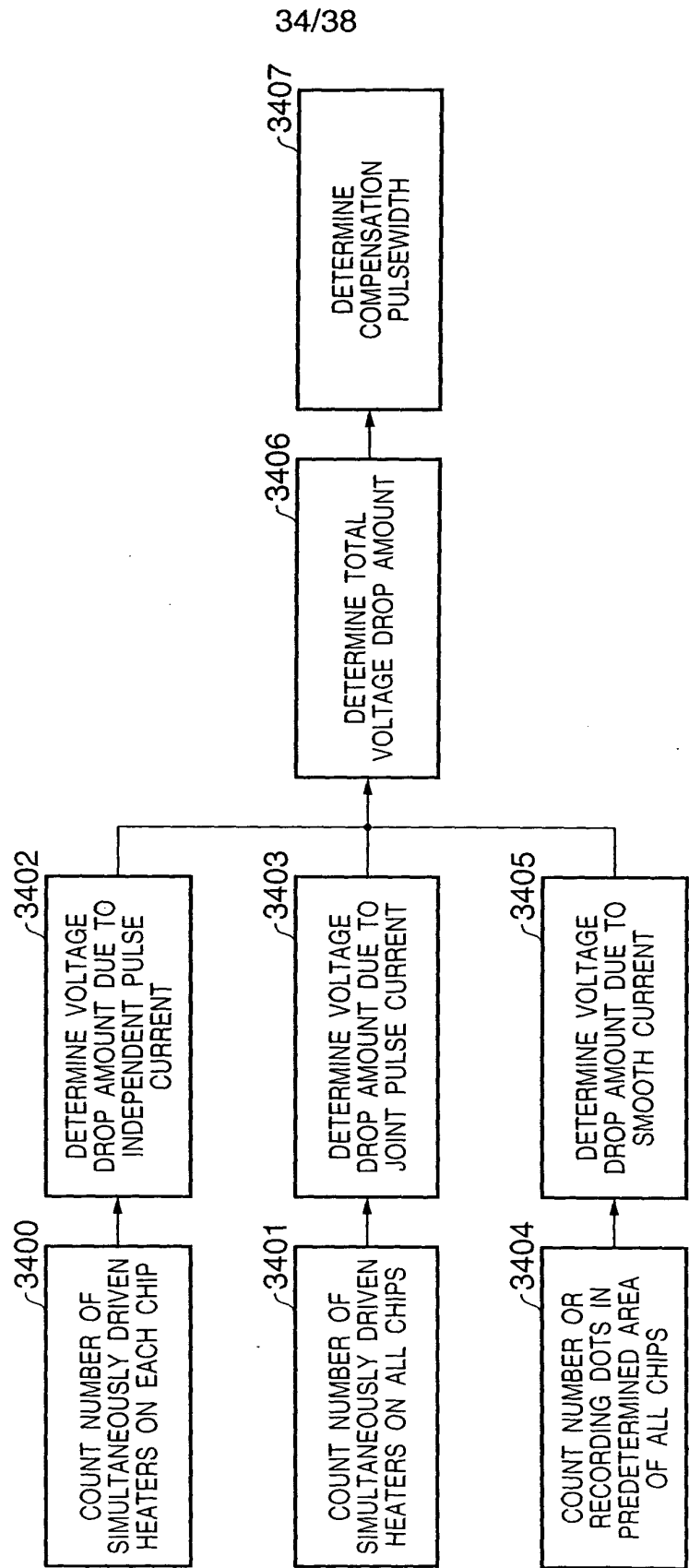
**FIG. 33**

FIG. 34



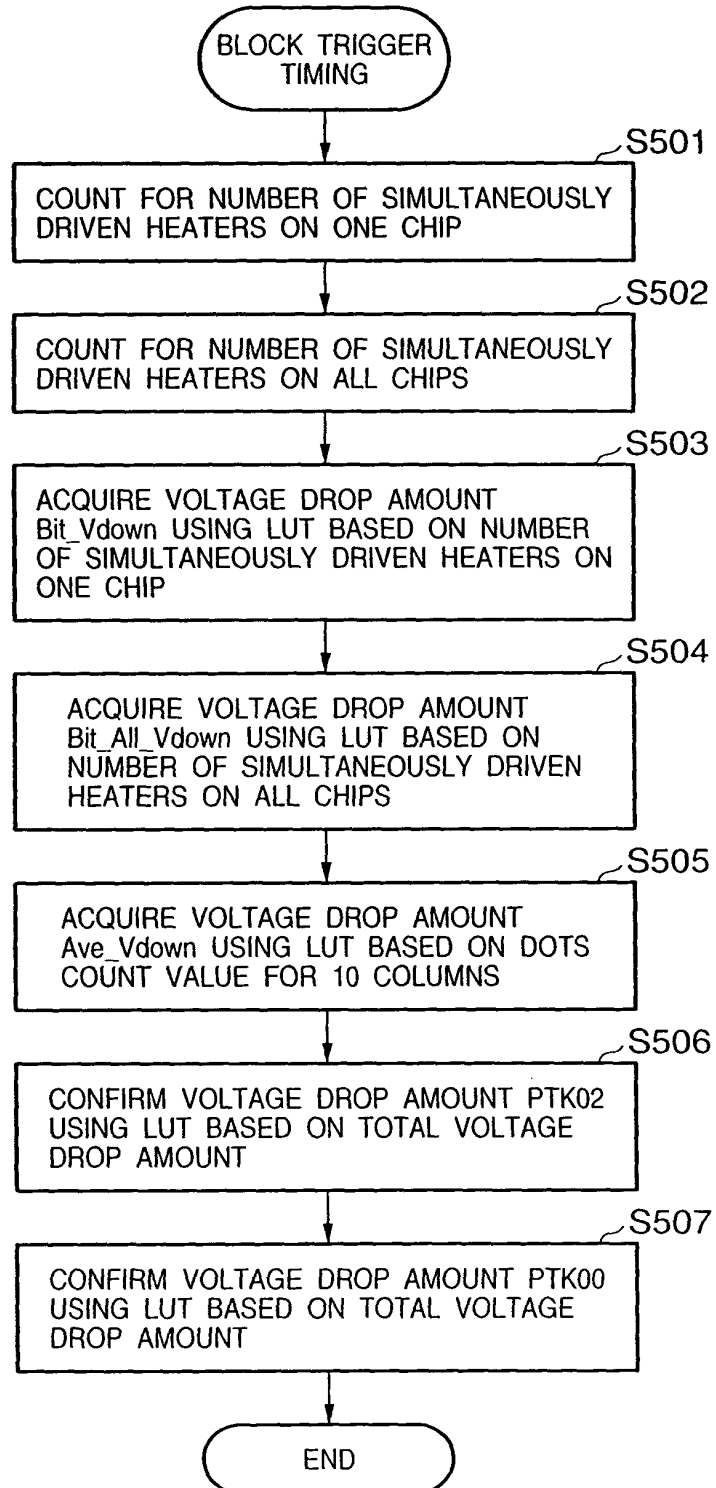
**FIG. 35**

FIG. 36

Bit\_All\_Vdown SETTING TABLE

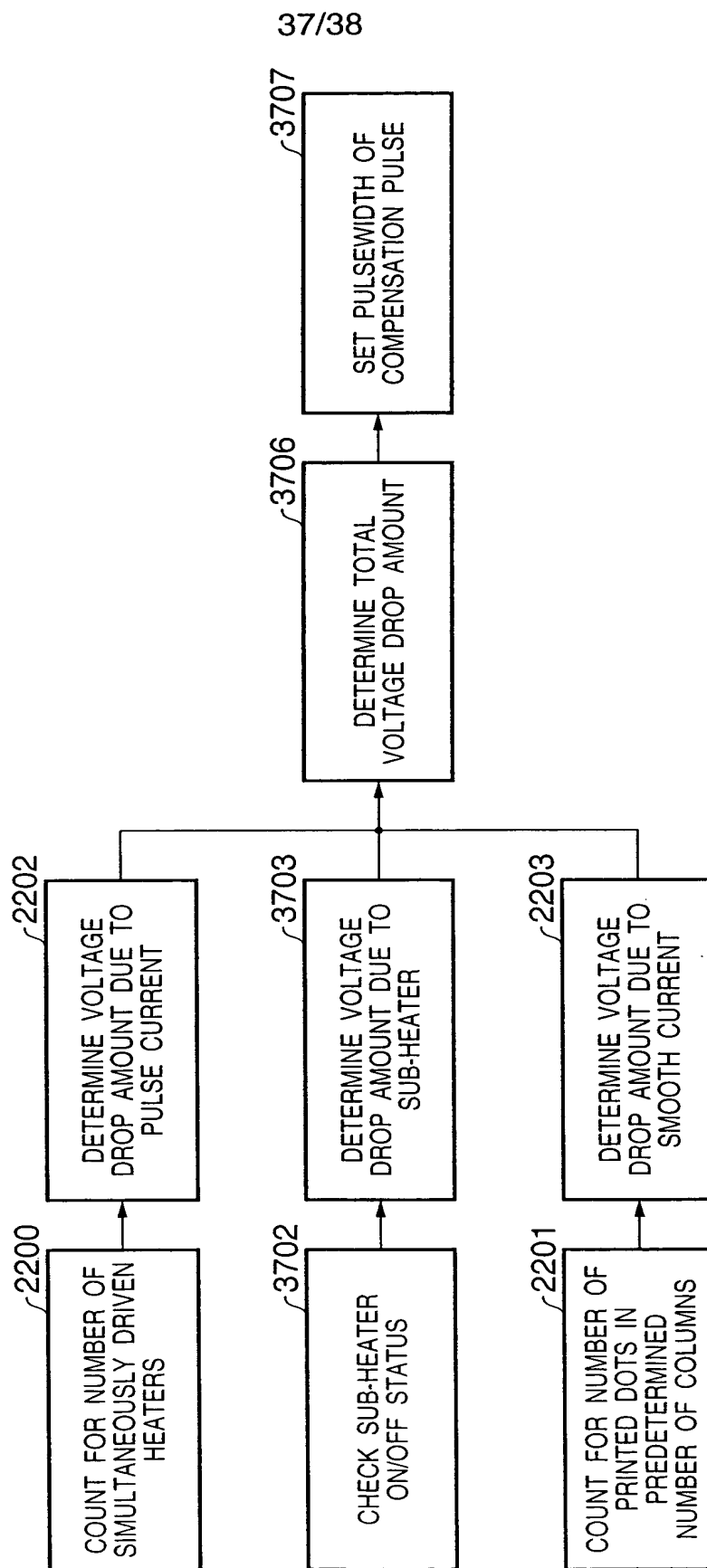
| HEAD INDEX | VOLTAGE DROP LEVEL 0 | VOLTAGE DROP LEVEL 1 | ... | VOLTAGE DROP LEVEL 13 |
|------------|----------------------|----------------------|-----|-----------------------|
| 114        | 33                   | 60                   | ... | 180                   |
| 115        | 33                   | 58                   | ... | 175                   |
| 116        | 33                   | 56                   | ... | 170                   |
| ...        | ...                  | ...                  | ... | ...                   |
| 173        | 35                   | 45                   | ... | 160                   |

SET WHEN HEAD IS MOUNTED



| VOLTAGE DROP LEVEL | 0 | 1 | ... | 13 |
|--------------------|---|---|-----|----|
| Bit_All_Vdown      |   |   |     |    |

FIG. 37



**FIG. 38**

SUB-HEATER Vdown TABLE

| HEAD INDEX | LEVEL OF VOLTAGE DROP DUE TO SUB-HEATER ON |
|------------|--|
| 114        | 1  |
| 115        | 1  |
| 116        | 2  |
| ...        | ...  |
| 173        | 10   |

SET WHEN  
HEAD IS  
MOUNTEDSUB-HEATER  
Vdown